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Date September 29, 2005

To Examiner William P. Watkins, III

Of PTO Group Art Unit 1772

Fax 571-273-8300

From Peter D. Olexy Registration No. 24,513

Subject SUBMISSION OF EXECUTED DECLARATION AND INTERVIEW SUMMARY

Our Ref Q78274 Appln No 10/695,802

Conf No 6874 Inventors Koyata TAKAHASHI, et al.

Pages 5 (including cover sheet)

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This fax filing includes:

1. This cover sheet
2. Submission of Executed Declaration Under 37 C.F.R. § 1.132
3. Declaration of Masanori Kohgo
4. One sheet containing Photograph 1 and Photograph 2

#### **CERTIFICATION OF FACSIMILE TRANSMISSION**

Sir:

I hereby certify that the above identified correspondence is being facsimile transmitted to Examiner William P. Watkins, III at the Patent and Trademark Office on September 29, 2005 at 571 273-8300.

Respectfully submitted,

Deangela D. Williams

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Date	September 28, 2005	INFORMAL
To	Examiner William P. Watkins, III	
Of	PTO Group Art Unit 1772	
Fax	571 <del>703</del> 273-1503	
From	Peter D. Olexy	Registration No. 24,513
Subject	SUBMISSION OF EXECUTED DECLARATION AND INTERVIEW SUMMARY	
Our Ref	Q78274	Appln No 10/695,802
Conf No	6874	Inventors Koyata TAKAHASHI, et al.
Pages	5 (including cover sheet)	

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4. One sheet containing Photograph 1 and Photograph 2

#### CERTIFICATION OF FACSIMILE TRANSMISSION

Sir:

I hereby certify that the above identified correspondence is being facsimile transmitted to Examiner William P. Watkins, III at the Patent and Trademark Office on September 28, 2005 at 703 273-1503.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'Deangela D. Williams', followed by a horizontal line.

Deangela D. Williams

## PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of  
Koyata TAKAHASHI, et al.

Docket No: Q78274

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SEP 29 2005

Appln. No.: 10/695,802

Group Art Unit: 1772

Confirmation No.: 6874

Examiner: William P. Watkins, III

Filed: October 30, 2003

For: ISLAND PROJECTION-MODIFIED PART, METHOD FOR PRODUCING THE SAME,  
AND APPARATUS COMPRISING THE SAME

## SUBMISSION OF EXECUTED DECLARATION UNDER 37 C.F.R. §1.132

## /INTERVIEW SUMMARY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

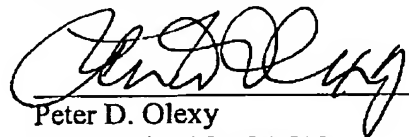
Submitted herewith is a DECLARATION...1.132. The DECLARATION is brief, and attached to the DECLARATION are Photograph 1 and Photograph 2.

The Examiner is requested to refer to said DECLARATION.

It is believed that this is in accordance with the Examiner's suggestion that the photographic evidence attached to the last AMENDMENT be put in the form of DECLARATION so that it can be given full weight by the Examiner.

It is believed that the second full paragraph on page 2 of that DECLARATION does relate the DECLARATION to the present claims and to the prior art since Applicants have urged that the present claims define a structure completely different from the prior art.

Respectfully submitted,



Peter D. Olexy  
Registration No. 24,513

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: September 28, 2005

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q78274

Koyata TAKAHASHI, et al.

Appln. No.: 10/695,802

Group Art Unit: 1772

Confirmation No.: 6874

Examiner: William P. Watkins, III

Filed: October 30, 2003

For: ISLAND PROJECTION-MODIFIED PART, METHOD FOR PRODUCING THE SAME,  
AND APPARATUS COMPRISING THE SAME

**DECLARATION UNDER 37 C.F.R. § 1.132**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, Masanori Kohgo, declare and state as follows:

I am a co-inventor of the present application.

I graduated from Tokai University, Department of Electrical Engineering, in March of 1986.

I entered the employ of the Tosoh Corporation, the assignee of the present application, in April of 1986, and have been engaged in research relating to thin film materials (April 2001-March 2002) and research regarding quartz spraying (April 2002-present).

Attached hereto are Photograph 1 and Photograph 2. These photographs were prepared by myself or under my direction and control. It is my understanding that Photographs 1 and 2 were filed with the USPTO on July 11, 2005, with the AMENDMENT filed on that same date.

The procedure used to generate Photographs 1 and 2 was as follows.

The surface of a general quartz glass was subjected to blasting, and then subjected to wet etching with 15% hydrofluoric acid. As a result, the surface state of the quartz glass was such that sharp edges were formed on the surface thereof. The surface state was observed with a scanning electron microscope. The results obtained are shown in Photograph 1.

DECLARATION UNDER 37 C.F.R. § 1.312  
U.S. Application No.: 10/695,802

The quartz glass having the surface state shown in Photograph 1 was subjected to plasma etching using  $\text{CF}_4$  gas at an electric power of 300 W for 4 hours. The surface state was also observed with a scanning electron microscope. The results obtained are shown in Photograph 2. As can be seen from Photograph 2, the plasma concentrated on the sharp edge portions and the sharp edge portions were converted into a shape where the surface thereof was selectively shaved.

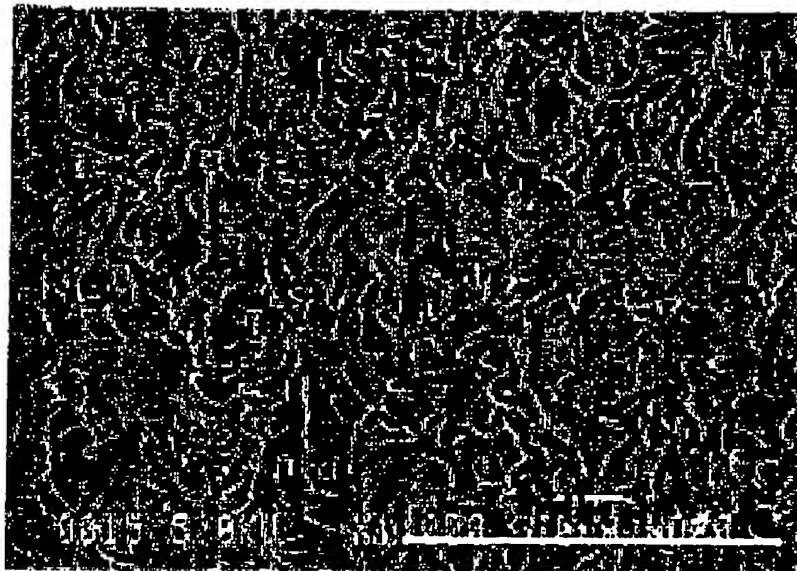
I believe the results are relevant to US Patent 6,150,006 Hellmann et al with reference to Fig. 1 of that patent, i.e., there is clearly the possibility that an electric field would concentrate on edge portions of "substantially flat top surface 4" or an angular portion of "individual step element 7" in "elevation 1", even if the angles might not be acute or sharp angles.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: September 22, 2005

  
Masanori Kohgo

Photograph 1



Photograph 2

